BMP HIGH SPEED DOORS

FRIGO 2

TECHNICAL DATA

LOW TEMPERATURE | DOUBLE CURTAIN | SELF-REPAIR | SAFE | HIGH SPEED 1,8 m/s | OIL FREE | GRAVITY TECHNOLOGY

MAXIMUM DIMENSIONS	**W** 6000 mm x **H** 7000 mm
SPEED	**Max opening speed** Up to 1,8 m/s
	Closing speed 0,8 m/s
CYCLES TEST	1.000.000
WIND RESISTANCE	Class 2
STRUCTURE	Not self-supporting
FRAME / MOTOR COVER HOOD	**Standard** • Galvanized steel • Powder coated steel
	Optional Stainless Steel 304/316
CURTAIN	**Standard** PVC curtain 900 gr/m²
SLIDING SYSTEM	Patented sliding system with high density Polyzene self- lubricant equipped of sliding zipper directly on curtain.
CONTROL PANEL	Power supply 3-ph, 230 V
	Power supply 3-ph + N 380 V
	Inverter system 50/60 Hz with absolute encoder
	IP rating for motor and control panel IP54
WIRING	Plug and Play system IP65
SAFETIES	**Standard** • Photocells set IP65 • Anti-jam sensor reverse • WiFi safety edge IP65
	Optional • Multi ray light curtain barrier H 2500 IP67
EMERGENCY OPENING	**Standard** Hand crank
	Optional Chain system UPS battery
HEATING-KIT	**A:** Heater on electrical components and mechanical, heating cable 30W per linear meter
	B: Heater in air space with warm air blower 2,35 KW max

DynamicRoll® **FRIGO 2** is a self-repairing roll up door made up of 2 flexible curtains, divided by 200mm and when in closed position create an insulated air barrier.
This technology makes the door ideal to meet the refrigeration field needs, where it's often needed to separate environments with positiive temperature and negative one, avoiding the condensation and icing, situation dangerous for workers and for proper operation of door itself.
DynamicRoll® **FRIGO 2** can be installed both in positive and negative temperature and it's a guaranteed of safety for workers and means, due to the specifically designed zip guide system that allows the curtain to exit the guides in the event of impact and reinsert in one cycle.

WATCH THE VIDEO!

EN13241 CERTIFICATION

STANDARD	RIF.	TEST ACC.	RESULTS
WATER PERMEABILITY	EN 12425	EN 12489	Class 1
WIND LOAD	EN 12424	EN 12444	Class 2
WIND PERMEABILITY	EN 12426	EN 12427	Class 1
SAFE OPENINGS	EN 12453	EN 12445	✓
MECHANICAL RESISTANCE	EN 12604	EN 12605	✓
UNINTENDED MOVEMENTS	EN 12604	EN 12605	✓
THERMAL TRANSMITTANCE	EN 12428	EN 12428	2,0 W/m²K
PERFORMANCE (CYCLES)	EN 12604	EN 12605	1.000.000

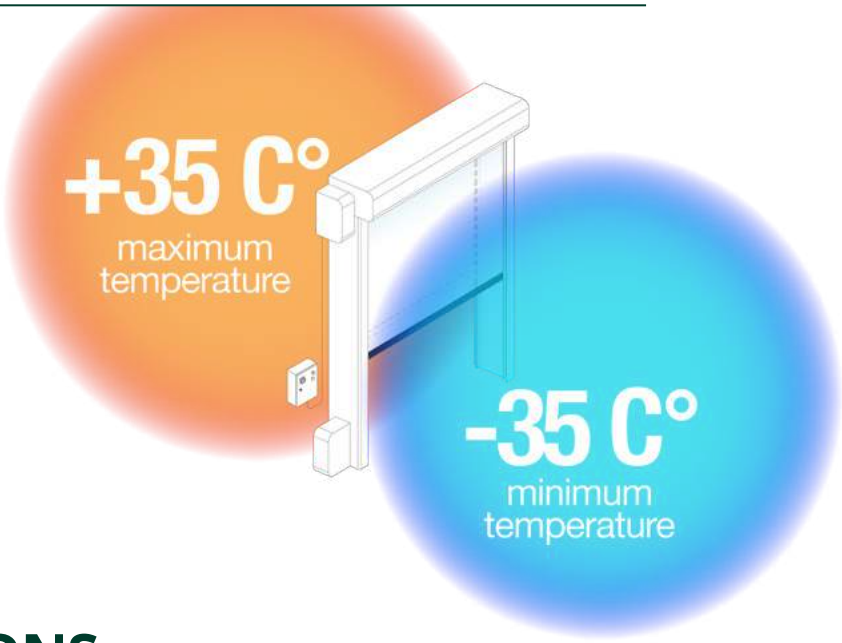
Values can change depending on door dimensions

ADVANTAGES

- Self-repairing
- Rapid
- Sealing
- Noiseless
- No rigid elements inside the curtain for 100% safety
- Plug & play (easy to install)
- Low maintenance
- Energy savings
- Allow the traffic flows in safety between areas of high temperature gap
- Double PVC curtains (airspace between 200 mm)

SLIDING SYSTEM / SELF-REPAIRING

ADVISING OPERATIVE **TEMPERATURE**

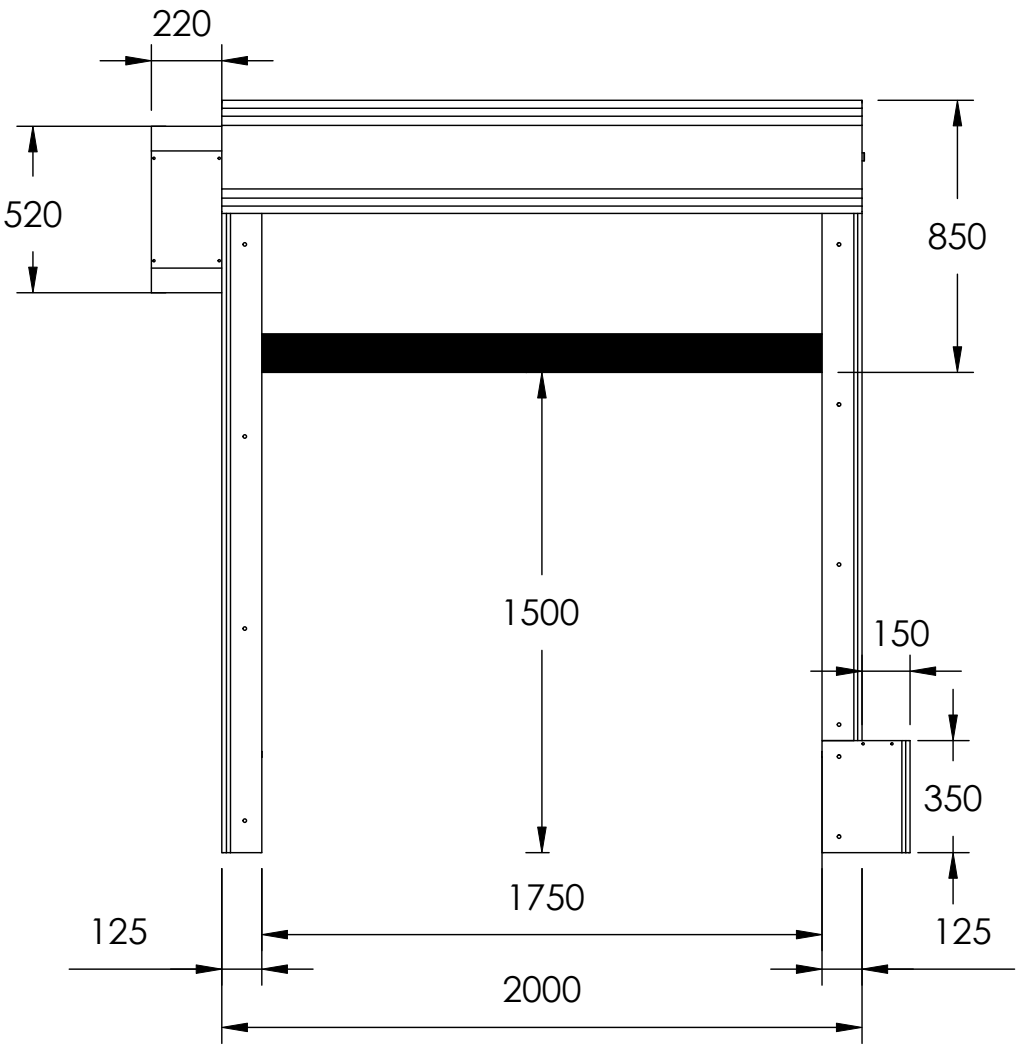


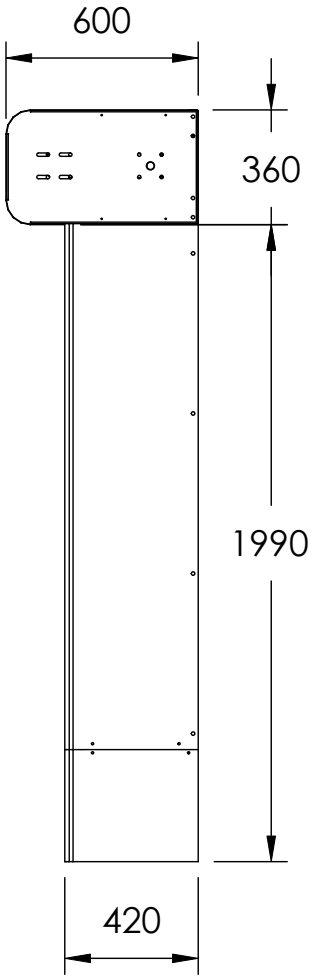
APPLICATIONS

Refrigeration industry

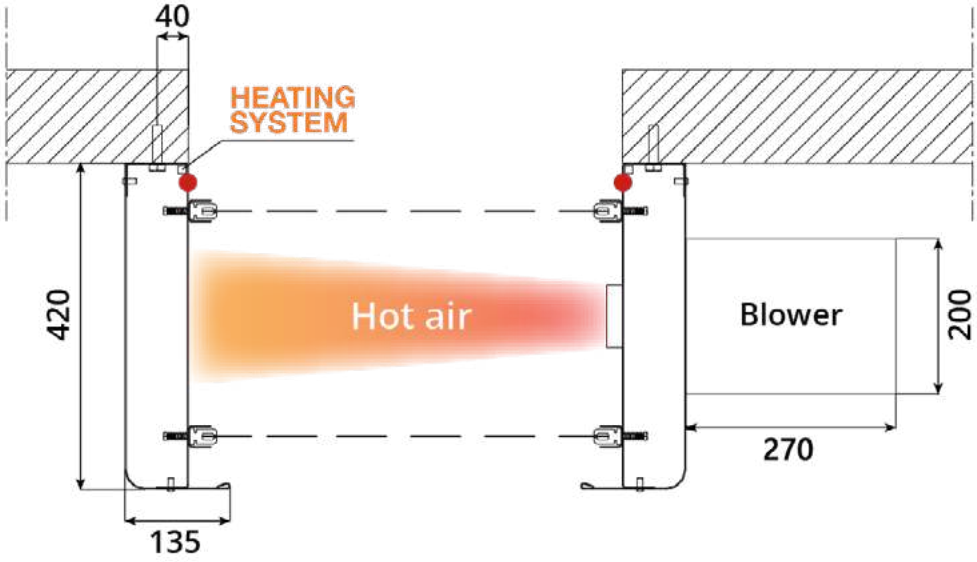
Ideal to manage high temperatures difference even without a humidy controlled system

DOOR SPACE REQUIREMENTS





FIXING DETAILS



PVC CHARACTERISTICS

STANDARD PVC

Composition and tests

EXTERNAL SIDE			
Material	*Finishing*	*Color*	*Thick*
PVC	Opaque	12 standard	0,7 mm
FABRIC			
Material	*N. tarps*	*Title*	*EN 2286-2*
PES	1	1100Dtex 12x12	900 g/m²
INTERNAL SIDE			
Material	*Finishing*	*Color*	*Thick*
PVC	Rough	12 standard	0,2 mm

COLD RESISTANCE
ISO 4675/90
-50°C ±5

HYDROLYSIS TEST
75°C 95% humidity
none variation

GAS OIL TEST
ISO 1421
none variation

MARINE WATER TEST
(ISO 1421)
none variation

OZONE TEST
ISO 3011
none crack

T. STORAGE
(°C)
-30 +65

FLAME TEST
(ISO 3795)
< 100 mm/min

PERFORATION
RINA 3.A1.2.7
(N) > 100

EXERCISE 7 days -70°C
ISO 6065
none variation

Characteristics

THICK
ISO 2286/3
(mm) 0,9±0,1

WEIGHT
ISO 2286/2
(kg/m2) 0,90±0,1

LOAD BREAK
ISO 1421
6000 N/50mm

WARP EXTENSION
ISO 1421
4300 N/50mm

TEXTURE EXTENSION
ISO 1421
4000 N/50mm

WARP BREAK
dIN 53 363
(N) > 600

TEXTURE BREAK
dIN 53 363
(N) > 530

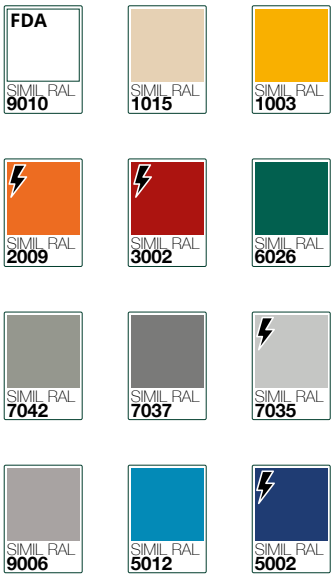
ADHESION
dIN EN ISO 2411
130 N/50mm

EEC CONFORMITY
-
Yes

SPECIFIC USE
industry, refrigerators, car washes, supermarkets, warehouses

ASSOCIATION
-

Colors



FDA (Food Drug Administration) certificated pvc available

Antistatic available

INSULATED PVC

Composition and tests

EXTERNAL SIDE			
Material	*Finishing*	*Color*	*Thick*
PVC	Straight	4 standard	0,5 mm
FABRIC			
Material	*N. tarps*	*Title*	*EN 2286-2*
PES	1	1100Dtex 12x12	1350 g/m²
INTERNAL SIDE			
Material	*Finishing*	*Color*	*Thick*
PVC	Sponge	4 standard	7 mm

COLD RESISTANCE
ISO 4675/90
-10°C ±5

HYDROLYSIS TEST
75°C 95% humidity
none variation

GAS OIL TEST
ISO 1421
none variation

MARINE WATER TEST
(ISO 1421)
none variation

OZONE TEST
ISO 3011
none crack

T. STORAGE
(°C)
-30 +65

FLAME TEST
ISO 3795
cl 2, NFPA 701 test 2

PERFORATION
RINA 3.A1.2.7
(N) > 100

EXERCISE 7 days -70°C
ISO 6065
none variation

Characteristics

THICK
ISO 2286/3
(mm) 7,0±0,1

WEIGHT
ISO 2286/2
(kg/m2) 1,7±0,1

LOAD BREAK
ISO 1421
6000 N/50mm

WARP EXTENSION
ISO 1421/V1
3000 N/50mm

TEXTURE EXTENSION
ISO 1421/V1
2800 N/50mm

WARP BREAK
dIN 53 363
300 N

TEXTURE BREAK
dIN 53 363
300 N

ADHESION
PA 09.03 (internal)
15 N/cm

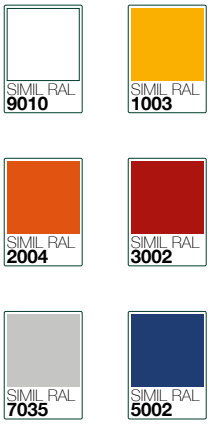
THERMAL CONDUCTIVITY
-
0,03782 W.m^{-1}

ISOLATION INDEX
-
Rw= 17,5 dB

EMPLOYMENT
industry, refrigerators, car washes, supermarkets, warehouses

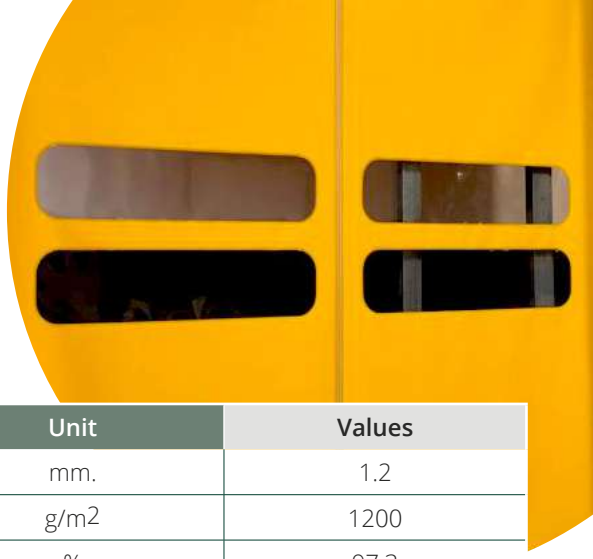
ASSOCIATION
-

Colors



CRISTAL CHARACTERISTICS

PVC SUPERCLEAR



SUITABLE ONLY FOR POSITIVE TEMPERATURE ENVIRONMENTS

WINDOWS - *CRISTAL*

TECHNICAL DATA

Article	SUPERCLEAR 1.2 mm FR

Technical specifications	Standards	Unit	Values
Thickness	-	mm.	1.2
PVC total weight	-	g/m2	1200
Light transmission	JIS K - 7361	%	97.3
Tensile strength *Lenghtwise MD*	JIS K - 6732	N	26.1
Tensile strength *Crosswise TD*	JIS K - 6732	N	24.3
Tear strength *Lenghtwise MD*	JIS K - 6732	N	63.4
Tear strength *Crosswise TD*	JIS K - 6732	N	63.9
Elongation *Lenghtwise MD*	JIS K - 6732	%	377
Elongation *Crosswise TD*	JIS K - 6732	%	378
Cold crack resistance	JIS K - 6772	°C	-45

OPTIONAL ACCESSORIES

RADAR

OPENING POINT RADAR TOF/SPOT for internal use only

INFRARED RADAR with cross-movement adjustement

INFRARED RADAR motion and presence (pedestrian/forklift) radar

TRAFFIC LIGHTS

GREEN FIXED STANDARD traffic light

RED FIXED STANDARD traffic light

LED TRAFFIC LIGHT with countdown

LED TRAFFIC LIGHT BARRIERS (connection card included)

BUTTONS

OPENING GREEN BUTTON with box

OPENING BLACK BUTTON with box

FREEZE STOP BUTTON with box

NO TOUCH BUTTON

WIND GAUGE

KEY SELECTOR

REMOTE CONTROL

BOLLARD B-PROTECT

PULL CORD SWITCH

MAGENTIC LOOP DETECTOR

Quality products since 1997

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